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NOTICE OF ALLOWANCE AND FEE(S) DUE

61650

7590

02/09/2010

MYERS WOLIN, LLC 100 HEADQUARTERS PLAZA North Tower, 6th Floor MORRISTOWN, NJ 07960-6834 EXAMINER

MAIS, MARK A

ART UNIT PAPER NUMBER

2467

DATE MAILED: 02/09/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/779,336	02/12/2004	Mamoru Higuchi	FJHD 32	5225

TITLE OF INVENTION: MOBILE COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/10/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

maintenance fee notifica	ENCE ADDRESS (Note: Use BI	ock 1 for any change of address)	Feet	c) Transmittal This	mailing can only be used for secretificate cannot be used to	for any other accompanying	
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North Tower, 6t	ARTERS PLAZA		I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an er addressed to the Mail Stop ISSUE FEE address above, or being fa transmitted to the USPTO (571) 273-2885, on the date indicated below.				
	N, NJ 07960-6834		Trans.	initied to the OSI I	10 (371) 273 2003; Of the C	(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/10/2010	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
MAIS, N	MARK A	2467	370-354000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p		4		
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	L THE PATENT (print or typ	pe)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assigne	ee is identified below, the d	locument has been filed for	
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Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	rporation or other private gr	oup entity 🖵 Government	
4a. The following fee(s)	are submitted:	41	o. Payment of Fee(s): (Plea	se first reapply an	y previously paid issue fee	shown above)	
Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
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5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no long	ran alaiming SMAI	L ENTITY status. See 37 C	ED 1.27(a)(2)	
• •					stered attorney or agent; or the		
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.				
Authorized Signature				Date			
Typed or printed name				Registration N	o		
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or r	etain a benefit by th	ne public which is to file (an	d by the USPTO to process)	
an application. Confiden submitting the complete	tuatity is governed by 35 d application form to the	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is est depending upon the indiv	imated to take 12 n idual case. Any co	ninutes to complete, including mments on the amount of ti Trademark Office, U.S. Dep	ng gathering, preparing, and me you require to complete	
Box 1450, Alexandria, V	/irginia 22313-1450. DC	ruen, snould be sent to th DNOT SEND FEES OR (e Chief information Office COMPLETED FORMS TO	r, ∪.S. Patent and ' D THIS ADDRESS	frademark Office, U.S. Dep . SEND TO: Commissioner	for Patents, P.O. Box 1450,	
Alexandria, Virginia 223	113-143U.						

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/779,336	02/12/2004	Mamoru Higuchi	FJHD 32 5225	
61650 75	590 02/09/2010		EXAMINER	
MYERS WOLIN	I, LLC	MAIS, N	IARK A	
100 HEADQUARTERS PLAZA			ART UNIT	PAPER NUMBER
North Tower, 6th I MORRISTOWN, 1			2467 DATE MAILED: 02/09/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 924 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 924 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	10/779,336 Examiner	HIGUCHI ET AL. Art Unit			
, and a second and	Examiner	Artonic			
	MARK A. MAIS	2467			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate commits. This application is	in this application. If not included nunication will be mailed in due course			
1. X This communication is responsive to the RCE of 18 Decer	<u>mber 2009</u> .				
2. The allowed claim(s) is/are 1 and 2-10 [renumbered 1-9].					
3. ☑ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☒ None of the: 1. ☑ Certified copies of the priority documents have	e been received.	, , , , , , , , , , , , , , , , , , ,			
2. Certified copies of the priority documents have			41		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirem	ients		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of		
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			ne		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of	Informal Datant Application			
 Induce of References Cited (PTO-692) Induce of Draftperson's Patent Drawing Review (PTO-948) 		Informal Patent Application			
	Paper No	Summary (PTO-413), b./Mail Date /s Amendment/Comment			
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8.	's Statement of Reasons for Allowance	€		
-	9. 🗌 Other	<u>_</u> .			
	/Pankaj Kum				
	Supervisory P	atent Examiner, Art Unit 2467			

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Art Unit: 2467

EXAMINER'S AMENDMENT

1. Applicants previously paid for 4 independent claims on February 12, 2004. Subsequently, independent claim 11 was cancelled in the Amendment dated June 28, 2009. It is not clear if an additional independent claim (in excess of three) charge is required in order to make an examiner's amendment which places this application in condition for allowance.

2. During a telephone conversation conducted on February 1, 2010, Brian S. Meyers (Reg. # 46,947) authorized the Director to charge Deposit Account No. 503894 the required fee of \$94 (if necessary) and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

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Art Unit: 2467

3. Please amend claim 7 as follows:

Claim 7 (currently amended) A packet transmission method in the mobile communication system according to claim 1, the method comprising: A mobile communication system performing both radio communication to a mobile station and packet communication within the system, said mobile communication system comprising:

a top node located at a boundary between a mobile communication network and a fixed network of an IP network system and performing IP packet routing;

a plurality of terminal nodes respectively to register and manage one or more subordinate mobile stations;

a plurality of intermediate nodes layered in a tree shaped connection structure and provided between the top node and the terminal nodes, the tree-shaped connection structure having a network structure in which each intermediate node of the plurality of intermediate nodes performs IP packet routing and there are no redundant routes for IP packet flow between the top node and each terminal node of the plurality of terminal nodes,

wherein a terminal node of the plurality of terminal nodes retains respective management information of a mobile station which is registered with the terminal node, the management information includes an IP address assigned to the mobile station, and

wherein each intermediate node of the plurality of intermediate nodes transfers user data received from any node located from within the mobile communication network, including a top node, an intermediate node, or a terminal node, or received from a different network and

addressed to the mobile communication network, by use of a broadcast format to the plurality of terminal nodes, the user data is further transmitted to the mobile station by the terminal node in which the mobile station is registered, based on the management information retained by the terminal node;

wherein a packet transmission method in said mobile communication system comprises:

a first processing procedure registering the location of the mobile station into the terminal node by setting up a signal transmission path between the terminal node and the mobile station;

a second processing procedure setting a mobile communication environment; and a third processing procedure setting up a user data transmission path.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK A. MAIS whose telephone number is (571)272-3138. The examiner can normally be reached on 5am-4pm.

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5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Pankaj Kumar can be reached on 571-272-3011. The fax phone number for the organization

where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 1, 2010

/MARK A. MAIS/

Examiner, Art Unit 2467

/Pankaj Kumar/

Supervisory Patent Examiner, Art Unit 2467